

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Thomas Diuan Examiner #: 78254 Date: 5-6-03
Art Unit: 3724 Phone Number 308-4200 Serial Number: 10/025,832
Mail Box and Bldg/Room Location: CP2 11D30 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Clip-on corner alignment device

Inventors (please provide full names): Arnold Robert

Earliest Priority Filing Date: 12/19/01

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

I am looking for a device that clips onto a tool that can align a work piece to be acted upon by the tool. Specifically, I am looking for a clip-on corner alignment device used to align the corner of a piece of paper with a punch tool.

Any clip-on alignment device would be great, especially one having two resilient arm connected at a connection point, with each arm having a guide surface.

Keywords: clip, clip-on, guide, align, alignment, punch

maybe craft catalogs would have something like this?

Thanks!

STAFF USE ONLY

Searcher: JEANNE HARRIGAN

Searcher Phone #: _____

Searcher Location: _____

Date Searcher Picked Up: 5/7

Date Completed: 5/7

Searcher Prep & Review Time: 113

Clerical Prep Time: _____

Online Time: 112

Type of Search

NA Sequence (#) _____

AA Sequence (#) _____

Structure (#) _____

Bibliographic ☒

Litigation _____

Fulltext ☒

Patent Family _____

Other _____

Vendors and cost where applicable

STN ☒

Dialog ☒

Questel/Orbit _____

Dr.Link _____

Lexis/Nexis _____

Sequence Systems _____

WWW/Internet ☒

Other (specify) _____



STIC Search Report

EIC 3700

STIC Database Tracking Number: 93369

TO: Thomas Druan
Location: CP2-11D30
Wednesday, May 07, 2003

Case Serial Number: 10/025832

From: Jeanne Horrigan
Location: EIC 3700
CP2-2C08
Phone: 305-5934

Jeanne.horrigan@uspto.gov

Search Notes

Attached are the search results for the clip-on corner alignment device, including results of inventor and prior art searches in foreign/international patent databases and prior art searches in product and general interest non-patent literature databases. I also searched the Web using the Google search engine.

The results are organized into three sets:

- Results of inventor search in foreign/international patent databases;
- Results of prior art search in foreign/international patent databases; and
- Results of non-patent literature search.

Results appear after the database names and search strategy used for those results. I tagged item that I thought seemed most relevant, but I suggest that you review all of the results.

Also attached is a search feedback form. Completion of the form is voluntary. Your completing this form would help us improve our search services.

I hope the attached information is useful. Please feel free to contact me (phone 305-5934 or email jeanne.horrigan@uspto.gov) if you have any questions or need additional searching on this application.



Searcher: Jeanne Horrigan
Serial 10/025832
May 7, 2003

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File 348:EUROPEAN PATENTS 1978-2003/Apr W04
File 349:PCT FULLTEXT 1979-2002/UB=20030501,UT=20030424
Set Items Description
S1 2 AU='ARNOLD ROBERT' [not relevant]

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200329
File 347:JAPIO Oct 1976-2002/Dec(Updated 030402)
File 371:French Patents 1961-2002/BOPI 200209
Set Items Description
S1 169 AU='ARNOLD R'
S2 1 AU='ARNOLD ROBERT'
S3 85592 CLIP????
S4 0 S1 AND S3
S5 64 AU='ROBERT A'
S6 12 AU='ROBERT ARNOLD SMALLBONE' OR AU='ROBERT ARNOLD TAYLOR':-
AU='ROBERT ARNOLD TREMMEL'
S7 0 S3 AND S5:S6

2/26,TI/1 (Item 1 from file: 371)

DIALOG(R)File 371:French Patents

(c) 2002 INPI. All rts. reserv. All rts. reserv.
000646701

Title: DISPOSITIF D'ALIMENTATION EN PRODUIT LONG DE RECOUVREMENT D'UNE
INSTALLATION DE REVETEMENT INTERNE DE TUYAUTERIES

Patent and Priority Information (Country, Number, Date):

Patent: FR 2455945 - 19801205

File 94:JICST-EPlus 1985-2003/Apr W4
File 99:Wilson Appl. Sci & Tech Abs 1983-2003/Mar
File 111:TGG Natl.Newspaper Index(SM) 1979-2003/May 05
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
File 6:NTIS 1964-2003/May W1
File 8:Ei Compendex(R) 1970-2003/Apr W4
File 65:Inside Conferences 1993-2003/Apr W4
File 473:FINANCIAL TIMES ABSTRACTS 1998-2001/APR 02
File 474:New York Times Abs 1969-2003/May 06
File 475:Wall Street Journal Abs 1973-2003/May 06

Set	Items	Description
S1	15361	PUNCH OR PUNCHES OR PUNCHER? ? OR PUNCHING
S2	22911	STAMP OR STAMPS OR STAMPER? ? OR STAMPING
S3	2136	EMBOSS?
S4	20950	CLIP OR CLIPS OR CLIPPING OR CLASP? ? OR CLASPING OR GRIP - OR GRIPS OR GRIPPING
S5	71767	ALIGN?
S6	283616	GUIDE?
S7	1799050	PAPER
S8	28	S1:S3(10N)S4
S9	277	S5(3N)S6
S10	0	S8(S)S9
S11	0	S8(S)S5
S12	147	S4(S)S5
S13	0	S1:S3(S)S12
S14	65	S1:S3(S)S4
S15	0	S9 AND S14
S16	82	S1:S3 AND S4
S17	0	S5 AND S16
S18	0	S8/2003 OR S8/2002
S19	28	S8
S20	28	RD (unique items)
S21	0	S1:S3 AND S4 AND S5
S22	82	S1:S3 AND S4
S23	17	S22 AND S7
S24	15	S23 NOT S8
S25	15	RD (unique items)
S26	314	CLIP? ?() (ON OR ONS)
S27	0	S1:S3 AND S26

20/7/18 (Item 6 from file: 8)

DIALOG(R) File 8:Ei Compendex(R)

(c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.

02975260 E.I. Monthly No: EI9011133918

Title: Laser or punch. Which one.

Author: Von Trotha, Lebrecht

Corporate Source: Trumpf Lasertechnik GmbH, Ditzingen, West Ger

Source: Modern Machine Shop v 62 n 10 Mar 1990 p 66-75

Publication Year: 1990

CODEN: MMASAY ISSN: 0076-9991

Language: English

Document Type: JA; (Journal Article) Treatment: A; (Applications); G;
(General Review)

Journal Announcement: 9011

Abstract: Smaller job lots require methods that combine high productivity and economy with increased flexibility. The NC turret punch press first

revolutionized sheet metal processing and fabrication. The laser is now making its move. Both provide the user with advantages and options.

25/7/6 (Item 1 from file: 583)

DIALOG(R) File 583:Gale Group Globalbase(TM)

(c) 2002 The Gale Group. All rts. reserv.

05972664

Flottes Duo

GERMANY: NEW **PUNCHES** AND **SAPLERS** FROM NOVUS

Boss (XJC) Mar 1994 p.80-81

Language: GERMAN

On the Premiere fair in Frankfurt, Novus showed new staplers and **punches** as a complement to the product range, which now reaches from small gadgets for the schoolbag or the kitchen drawer to professional "heavy-weights". The article presents, among other things, the new stapler Novus B 10, which weights only 50 g, and the new **punch** B 200, the beginner model weighing only 160 g. The B 10 file can hold 50 Novus stapler **clips**, which can bind up to 8 sheets of normal 80 g **paper**. The B 200 **punch** can perforate 10 sheets or up to 1 mm of **paper**. The article also mentions the **punch** B 216, the favourably-priced office version for 1.6 mm of **paper**. The B 225 **punch** is suitable for up to 2.5 mm of **paper**. The new B 240 **punch** can perforate a **paper** stack of up to 4 mm. Only the professional **punch** B 210 can cope with a thicker stack (up to 6.3 mm).

File 9:Business & Industry(R) Jul/1994-2003/May 06
File 16:Gale Group PROMT(R) 1990-2003/May 06
File 47:Gale Group Magazine DB(TM) 1959-2003/May 05
File 80:TGG Aerospace/Def.Mkts(R) 1986-2003/May 06
File 95:TEME-Technology & Management 1989-2003/Apr W3
File 141:Readers Guide 1983-2003/Mar
File 148:Gale Group Trade & Industry DB 1976-2003/May 06
File 160:Gale Group PROMT(R) 1972-1989
File 481:DELPHEs Eur Bus 95-2003/Apr W4
File 482:Newsweek 2000-2003/May 03
File 484:Periodical Abs Plustext 1986-2003/Apr W4
File 621:Gale Group New Prod.Annou.(R) 1985-2003/May 06
File 649:Gale Group Newswire ASAP(TM) 2003/May 06
File 570:Gale Group MARS(R) 1984-2003/May 06

Set	Items	Description
S1	127607	PUNCH OR PUNCHES OR PUNCHER? ? OR PUNCHING
S2	179151	STAMP OR STAMPS OR STAMPER? ? OR STAMPING
S3	24715	EMBOSS?
S4	328620	CLIP OR CLIPS OR CLIPPING OR CLASP? ? OR CLASPING OR GRIP - OR GRIPS OR GRIPPING
S5	297836	ALIGN?
S6	1600129	GUIDE?
S7	1539239	PAPER
S8	8584	CLIP? ?() (ON OR ONS)
S9	323084	S1:S3
S10	43	S8(S)S9
S11	34	RD (unique items)
S12	3	S11/2003 OR S11/2002
S13	31	S11 NOT S12
S14	31	Sort S13/ALL/PD,D
S15	47	S9(S)S4(S)S5:S6
S16	47	S15 NOT S10
S17	43	RD (unique items)
S18	4	S17/2003 OR S17/2002
S19	39	S17 NOT S18
S20	39	Sort S19/ALL/PD,D
S21	377	PAPER() PUNCH???
S22	130	ALIGNMENT() GUIDE? ?
S23	0	S21 AND S22
S24	1	S8 AND S21
S25	6	S8 AND S22
S26	7	S24:S25

14/3,K/10 (Item 10 from file: 47)

DIALOG(R)File 47:Gale Group Magazine DB(TM)

(c) 2003 The Gale group. All rts. reserv.

05450598 SUPPLIER NUMBER: 56081639 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Not for Kids Only. (specialty stationery stores) (Brief Article)

CLARK, CYNTHIA

Publishers Weekly, 246, 40, 24

Oct 4, 1999

DOCUMENT TYPE: Brief Article ISSN: 0000-0019 LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 910 LINE COUNT: 00075

... a bon jour, Zelco Industries Inc., of Mt. Vernon, N.Y, maker of the
first **clip - on** booklight, introduces innovative reading and desk

products, many created by top Italian designers. Two lightheartedly...
...moderne design with pack-rat function: two hidden compartments swivel
out to hold paper clips, **stamps** and Post-its. A soft-grip ballpoint pen
stands guard at rear, while the clock...

14/3,K/15 (Item 15 from file: 141)

DIALOG(R)File 141:Readers Guide

(c) 2003 The HW Wilson Co. All rts. reserv.

03817112 H.W. WILSON RECORD NUMBER: BRGA98067112 (USE FORMAT 7 FOR
FULLTEXT)

Seeing is believing.

We (New York, N.Y.) (We) (May/June '98) p. 54-5

WORD COUNT: 513

TEXT:

... within 15'. One 9V, two AAA batteries needed. \$36.50.

LIGHT UP YOUR LIFE For **stamp** collecting, sewing ... and reading, of
course, this magnifier with adjustable cord leaves your hands free. **Clip -**
on "shadowless" light provides Plus 2x magnifier, 4x bifocal lens. Two AA
batteries needed. \$19.95...

14/3,K/23 (Item 23 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2003 The Gale Group. All rts. reserv.

07195784 SUPPLIER NUMBER: 15150680 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Hall-of-Fame drafts eight. (winners in Purchasing's second annual Cost

Savers Hall-of-Fame contest)

Purchasing, v116, n1, p25(4)

Jan 13, 1994

ISSN: 0033-4448 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 1845 LINE COUNT: 00152

... help find a solution. As a result of Danneman's action, the
supplier assumed the **punch** press operation, and began stacking the **clips**
on a dowel rod in standard quantities. The changes, according to
Danneman, "eliminated the possibility of..."

20/3,K/2 (Item 2 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2003 The Gale Group. All rts. reserv.

08031616 Supplier Number: 66684099 (USE FORMAT 7 FOR FULLTEXT)

**EXECUTIVES ARGUE THE CASE FOR FLEXO. (annual conference of the Newspaper and
Publication Flexo Users Group) (Statistical Data Included)**

Rosenberg, Jim

Editor & Publisher, p30

Oct 30, 2000

Language: English Record Type: Fulltext

Article Type: Statistical Data Included

Document Type: Magazine/Journal; General

Word Count: 1489

... on about half of the printed pages.

Those same aqueous inks, however, along with lighter **grip** on the
sheet, conjoin to turn the emerging standard of a 50-inch web to flexo's
advantage. In flexo, trolleys that **guide** the web at its margins
ordinarily do not track ink in their path or deeply **emboss**, even
puncture, the sheet -- unlike offset's nondrying litho inks and often
too-firm **grip** on the sheet. "The offset people have just handed us a big
gift," said Danny...

20/3,K/34 (Item 34 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.
05541407 SUPPLIER NUMBER: 11594133 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Contracting ring gage pinpoints dimensions of hubs and grooves. (Products for Profit)
Industrial Distribution, v80, n15, p79(1)
Nov 15, 1991
ISSN: 0019-8153 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 4173 LINE COUNT: 00315
... enhances control and, in general, guarantees a higher rate of productivity per tool. The contoured **grip** conforms to hands of different sizes or shapes. A handy selector level instantly converts action...
...workers can repair and reactivate V-belts with the help a complete kit of belting, **clips**, a tensioning tool, and other components needed to finish the task at the job site...
...and adding thumb ridges to the handles of these manual nut drivers gives a firmer **grip** and allows more torque per turn. Selection is also made easier via color coding for...
...rates. Chip Breaker/insert combinations are broken down further with letter designations. An insert selection **guide** is available. Packaging includes additional information on selecting the right insert for the job. Carboloy...3 x and 10 x more power. NSK America, Inc. CIRCLE NO. 286 Get precision **punches** on order m any size, style, surface treatment, finish, and grade of steel. This single-sourcing producer stocks a line of standards plus specialties including precision, miniature parts for **punching** and related operations. Also available: form ground, high speed steel perforators; **punch** blanks; fractional and decimal tool and gage blanks; forged ejector pins; and core-type mold pins. Precision **Punch** Corp. CIRCLE NO. 287

26/3,K/1 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2003 The Gale Group. All rts. reserv.
07838719 Supplier Number: 65475653 (USE FORMAT 7 FOR FULLTEXT)
Force Computers Announces NEBS Building Block Initiative At Embedded Systems Conference.
Business Wire, p2338
Sept 26, 2000
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 814
... is a major concern in NEBS testing, which is addressed through the use of ESD **clips** on all CompactPCI card **alignment guides** and light pipes for sensitive indicator LEDs...

26/3,K/4 (Item 1 from file: 160)
DIALOG(R)File 160:Gale Group PROMT(R)
(c) 1999 The Gale Group. All rts. reserv.
01604679
Clip - on Heat Sinks Allow Easy Assembly with Semiconductor.
NEWS RELEASE December 11, 1986 p. 11
... design flexibility. Locking clips have an internal tab to lock the semiconductor permanently in place. **Alignment guides**, offered on some clips, line up the semiconductor for insertion. For applications to meet...

Searcher: Jeanne Horrigan
Serial 10/025832
May 7, 2003

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File 635:Business Dateline(R) 1985-2003/May 06
File 636:Gale Group Newsletter DB(TM) 1987-2003/May 06
File 646:Consumer Reports 1982-2003/Apr
File 609:Bridge World Markets 2000-2001/Oct 01
File 610:Business Wire 1999-2003/May 07
File 613:PR Newswire 1999-2003/May 07
File 810:Business Wire 1986-1999/Feb 28
File 813:PR Newswire 1987-1999/Apr 30
File 20:Dialog Global Reporter 1997-2003/May 07

Set	Items	Description
S1	102049	PUNCH OR PUNCHES OR PUNCHER? ? OR PUNCHING
S2	149270	STAMP OR STAMPS OR STAMPER? ? OR STAMPING
S3	8244	EMBOSS?
S4	225248	CLIP OR CLIPS OR CLIPPING OR CLASP? ? OR CLASPING OR GRIP - OR GRIPS OR GRIPPING
S5	176510	ALIGN?
S6	948469	GUIDE?
S7	1021895	PAPER
S8	4203	CLIP? ?() (ON OR ONS)
S9	33041	DS
S10	256663	S1:S3
S11	25	S5()S6
S12	2	S8(3N)S11 [duplicates]
S13	16	S10(S)S8
S14	16	S13 NOT S12
S15	15	RD (unique items)
S16	2	S15/2003 OR S15/2002
S17	13	S15 NOT S16
S18	13	Sort S17/ALL/PD,D [not relevant]
S19	0	S10(S)S4(S)S11
S20	2	S4(S)S11
S21	2	S20 NOT S16 [duplicates]
S22	1090	S10(S)S4
S23	1	S5(S)S22 [not relevant]
S24	28	S6(S)S22
S25	28	S24 NOT S14
S26	19	RD (unique items)
S27	3	S26/2003 OR S26/2002
S28	16	S26 NOT S27
S29	16	Sort S28/ALL/PD,D [not relevant]

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200329

File 347:JAPIO Oct 1976-2002/Dec(Updated 030402)

File 371:French Patents 1961-2002/BOPI 200209

Set	Items	Description
S1	79814	PUNCH OR PUNCHES OR PUNCHER? ? OR PUNCHING
S2	44670	STAMP OR STAMPS OR STAMPER? ? OR STAMPING
S3	25304	EMBOSS?
S4	238419	CLIP OR CLIPS OR CLIPPING OR CLASP? ? OR CLASPING OR GRIP - OR GRIPS OR GRIPPING
S5	318158	ALIGN?
S6	763783	GUIDE?
S7	463111	PAPER
S8	3275	CLIP? ?() (ON OR ONS)
S9	0	S5()S6 AND S8
S10	144335	S1:S3
S11	33	S8 AND S10
S12	1	S5 AND S11
S13	14	S8(S)S10
S14	14	S13 NOT S12 [not relevant]
S15	2170	S10(S)S4 NOT S13
S16	925	S5()S6
S17	0	S15 AND S16
S18	3	S5(3N)S6 AND S15
S19	61	S5(S)S15
S20	23	S10/TI AND S19
S21	22	S20 NOT (S12 OR S14 OR S18)
S22	14	(S4/TI AND S19) NOT (S12 OR S14 OR S18 OR S20)

12/3,K/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

009496196 **Image available**

WPI Acc No: 1993-189732/199324

XRPX Acc No: N93-145826

**Press tool for crimping connector strip to end of flexible belt - has
locating support for U-shaped strip with guiding slots to fold ends of
securing clips.**

Patent Assignee: GORO SA (GORO-N)

Inventor: SCHICK J F; SCHICK J

Number of Countries: 004 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 546299	A1	19930616	EP 92118373	A	19921028	199324 B
DE 4140743	A1	19930617	DE 4140743	A	19911211	199325
DE 4140743	C2	19931007	DE 4140743	A	19911211	199340
US 5368214	A	19941129	US 92989807	A	19921211	199502
EP 546299	B1	19950510	EP 92118373	A	19921028	199523
DE 59202150	G	19950614	DE 502150	A	19921028	199529
			EP 92118373	A	19921028	

Priority Applications (No Type Date): DE 4140743 A 19911211

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 546299	A1	G	11	F16G-003/16	
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Designated States (Regional): DE FR GB

DE 4140743	A1	13	F16G-003/16
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DE 4140743	C2	11	F16G-003/16
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US 5368214 A 10 B27F-007/19
EP 546299 B1 G 12 F16G-003/16
Designated States (Regional): DE FR GB
DE 59202150 G F16G-003/16 Based on patent EP 546299
...Abstract (Basic): The end of the flexible belt (2) is **aligned** in the press, with the open U-shaped strip(9) held between upright flanges...
...A transverse link bar (16) through the **aligning** flanges holds the strip connector in place. U-shaped guides (14) in the bottom die **align** the clip, and the **stamp** has an **alignment** shoulder (21) to ensure correct fitting of the strip...
...Abstract (Equivalent): die (3) and for fastening staples (7), which can be driven by means of the **punch** (6) through guide holes (8a, 8b) disposed one above another into the clips limbs (9a...
...Abstract (Equivalent): USE/ADVANTAGE - Provides secure mounting of **clip** on end of conveyor belt...

18/7/1 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.
010294210 **Image available**
WPI Acc No: 1995-195470/199526

Stamp unit for printing company name - has detachable print face protecting cap, and slidable skirt around periphery

Patent Assignee: BROTHER KOGYO KK (BRER)
Inventor: MIKI T; SEO K
Number of Countries: 009 Number of Patents: 008
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 655343	A1	19950531	EP 94308681	A	19941124	199526 B
JP 7314872	A	19951205	JP 94135108	A	19940524	199606
US 5483880	A	19960116	US 94337214	A	19941107	199609
EP 655343	B1	19990512	EP 94308681	A	19941124	199923
DE 69418432	E	19990617	DE 618432	A	19941124	199930
			EP 94308681	A	19941124	
KR 295536	B	20010917	KR 9431625	A	19941129	200231
JP 3294928	B2	20020624	JP 93329656	A	19931130	200243
JP 3299037	B2	20020708	JP 94135108	A	19940524	200247

Priority Applications (No Type Date): JP 94135108 A 19940524; JP 93329656 A 19931130

Cited Patents: DE 891845; EP 516399; US 3570396; US 4141292; US 4441422
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 655343	A1	E	31	B41K-001/32	
Designated States (Regional): BE CH DE FR GB LI					
JP 7314872	A		10	B41L-013/02	
US 5483880	A		29	B41K-001/32	
EP 655343	B1	E		B41K-001/32	
Designated States (Regional): BE CH DE FR GB LI					
DE 69418432	E			B41K-001/32	Based on patent EP 655343
KR 295536	B			B41K-001/54	Previous Publ. patent KR 95013739
JP 3294928	B2		7	B41K-001/32	Previous Publ. patent JP 7149031
JP 3299037	B2		10	B41K-001/50	Previous Publ. patent JP 7314872

Abstract (Basic): EP 655343 A

The **stamp** unit includes a **grip** portion and a **stamp** portion.
The **stamp** portion engages with a lower surface of the **grip** portion.
The **stamp** portion includes a base and a print face portion with a

heat sensitive stencil paper covering an ink member. The ink member is impregnated with ink. A skirt surrounds an outer peripheral side of the **stamp** portion, and can be moved up and down.

The skirt does not project beyond the print face portion. An elastic member urges the skirt towards one position. The grip and the skirt include guide holes. A protection cap covers the print face, and is detachable.

ADVANTAGE - Quick and easy to make. Improved print performance due to protective cover for print face. Avoids leaks.

Dwg.1/25

Abstract (Equivalent): US 5483880 A

A stamp unit comprising:

a grip portion having first guide holes extending in a substantially horizontal direction;

a **stamp** portion engageable with the **grip** portion, said **stamp** portion comprising:

a base member,

an ink member fixed to a lower surface of said base member, and

a heat sensitive stencil paper covering at least a lower surface of said ink member and comprising a print face portion;

a skirt member surrounding an outer peripheral side of said **stamp** portion, said skirt member having second guide holes, said skirt member being supported by at least one of said **grip** portion and said **stamp** portion so as to be movable relative to said ink member in a substantially vertical direction between a first position at which a lower end portion of said skirt member protects beyond said print face portion of said **stamp** portion, a second position at which said lower end portion of said skirt member does not protect beyond said print face portion, and a third position in which said first guide holes are maintained in **alignment** with said second **guide** holes such that an alignment device is receivable therethrough; and

an elastic member that elastically urges said skirt member toward said first position relative to said grip portion.

Dwg.11/25B

Derwent Class: P75

International Patent Class (Main): B41K-001/32; B41K-001/50; B41K-001/54; B41L-013/02

International Patent Class (Additional): B41K-001/56; B41L-013/18

21/3,K/5 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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008416484 **Image available**

WPI Acc No: 1990-303485/199040

XRPX Acc No: N90-233226

Stamping device for making items from sheet or rod - has devices to remove items from working zone in aligned position, in form of grips, and chain transporter carrying them

Patent Assignee: MASLOV A N (MASL-I)

Inventor: MASLOV A N

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 1548080	A	19900307	SU 4438361	A	19880513	199040 B
Priority Applications (No Type Date): SU 4438361 A 19880513						

21/3,K/7 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.
007687003 **Image available**
WPI Acc No: 1988-320935/198845
XRPX Acc No: N88-243218

Sheet material stamping device - has carriage positioned on fixed part of device and equipped with strip gripping unit

Patent Assignee: MOGIL ELEKTRODVIGAT (MOGI-R)

Inventor: GUSIN B S; MOZOLEV N I; YANCHEVSKI A P

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 1391774	A	19880430	SU 4102990	A	19860610	198845 B

Priority Applications (No Type Date): SU 4102990 A 19860610

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
SU 1391774	A		3		

...Abstract (Basic): a carriage (6) positioned on the fixed part of the device and provided with strip **gripping** unit (7) and placing an item with an opening in the same location of the...

...on the carriage (6) with the markings on the top. The cutting out contour is **aligned** with the contour of the frame (4). The blank is fixed and the carriage with the blank is moved into the **stamping** position. USE/ADVANTAGE - Mainly for marking purposes. Widened technological capabilities. Bul.16/30.4.88...

21/3,K/11 (Item 11 from file: 350)

DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.
003353380
WPI Acc No: 1982-L1402E/198234

Press for punching holes in square hollow sections - uses mandrel matrix over which work is threaded in path of punch and punch -action guides

Patent Assignee: MULARD M (MULA-I)

Inventor: MULARD M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2497699	A	19820716				198234 B

Priority Applications (No Type Date): FR 811178 A 19810115

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
FR 2497699	A		17		

...Abstract (Basic): The press **punches** holes through square hollow sections (1). Programmed handlers **grip** and feed the Work over a mandrel (30) on the free end of a cantilevered...

...work. A jack (45) actuated drop beam (36) locates tapered guides (34,35) with the **punch** (37) and its jack (45), the former leading the **punch** to enter **aligned** holes in the work and the mandrel. The **punch** pierces the work and passes through a mandrel hole, the **punch** and the guides being set at the required hole interval...

21/3,K/18 (Item 18 from file: 350)

DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

001275868

WPI Acc No: 1975-F9776W/197523

Hand printing stamp with removable raised printing symbols - has the symbol elements attached to the base of the stamp by magnetic attraction

Patent Assignee: DIGLIN J T (DIGL-I)

Number of Countries: 003 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 2455533	A	19750528				197523 B
ZA 7407410	A	19751111				197606
GB 1488115	A	19771005				197740

Priority Applications (No Type Date): GB 7354857 A 19731127

...Abstract (Basic): In one design, the flat base surface of the **stamp** base is covered by a thin steel sheet to which the magnetised layers on the...

...printing element are attracted. In a second design the magnetised layer is applied to the **stamp** base and the individual printing elements have a steel sheet base. The magnetised layer comprises...

...parts and aluminium, nickel and cobalt in a phenol resin. The mounting plate of the **stamp** is rectangular and made of a rigid non-metallic material in which two holes are formed for screws which attach the plate to the hand **grip**. The plate has a short rim encircling it to facilitate insertion and **alignment** of the relatively small printing elements which are provided with pictorial symbols of animals for...

21/3,K/21 (Item 1 from file: 347)

DIALOG(R)File 347:JAPIO

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03976783 **Image available**

STAMP POSITIONING APPARATUS

PUB. NO.: 04-341883 [JP 4341883 A]

PUBLISHED: November 27, 1992 (19921127)

INVENTOR(s): FUWA TETSUJI

APPLICANT(s): BROTHER IND LTD [000526] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 03-114661 [JP 91114661]

FILED: May 20, 1991 (19910520)

JOURNAL: Section M, Section No. 1397, Vol. 17, No. 196, Pg. 118, April 16, 1993 (19930416)

ABSTRACT

...CONSTITUTION: A **stamp** main body 1 is constituted so that a pressure absorbing member 5 composed of sponge...

...bonded to the front of a rectangular parallelepiped sealing surface base stand 4 having a **grip** 3 fixed to the center of the rear thereof and a sealing surface 6 composed...

... into contact with the right part of the sealing surface machine stand 4 of the **stamp** main body 1 to be fixed thereto by a clamping screw. At the time of use, ink is applied to the sealing surface from a **stamp** stand (not shown in a drawing) in such a state that the positioning frame 2 is opened. Next, the opening part 10 of the positioning frame 2 is **aligned** with a position where the sealing of a surface 30 to be sealed is desired and, thereafter, the **stamp** main body 1 is revolved in a Y-direction by holding the **grip** 3 in such a state that the positioning frame 2 is pressed to apply sealing.

21/3,K/22 (Item 2 from file: 347)

DIALOG(R) File 347:JAPIO

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02943737 **Image available**

PUNCH PRESS EQUIPPED WITH AUTOMATIC DIE CHANGING DEVICE

PUB. NO.: 01-241337 [JP 1241337 A]

PUBLISHED: September 26, 1989 (19890926)

INVENTOR(s): ARIMA NOBUTAKA

APPLICANT(s): AMADA CO LTD [330108] (A Japanese Company or Corporation), JP
(Japan)

APPL. NO.: 63-065847 [JP 8865847]

FILED: March 22, 1988 (19880322)

JOURNAL: Section: M, Section No. 910, Vol. 13, No. 577, Pg. 16,
December 20, 1989 (19891220)

ABSTRACT

...CONSTITUTION: The position H2 of a **punch** 15 becomes undefined by the dispersion of the upper dead center of a **punch** holder 17 in case of changing the dies of a **punch** 15 and die 19. However, the height of the arm base for **punch** is adjustable at its position by the vertical movement of a piston rod 111, so the height of the base 87 is adjusted to **align** the position of the **punch** 15 to the height of H2. The base 87 thus creeps into in the state of as ascending by the rod 111, keeping the positional relation H4 of the **grip** arm 79 for **punch** and the groove of the **punch** 15 constant and holding the **punch** 15. The rod 111 is then descended, the base 87 holds the **punch** 15, the arm base 95 for die holds stripper 65 and die 19, and the replacement of a die is completed by being placed out of the **punch** holder 17.

22/3,K/8 (Item 8 from file: 350)

DIALOG(R) File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

004584360

WPI Acc No: 1986-087704/198613

XRPX Acc No: N86-064076

Terminal bridging clip with centering tab - has stamped or cut-out window in metal U-shaped clip with centrally aligned on clip in window

Patent Assignee: SIEMON CO (SIEM-N)

Inventor: THOMAS S M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4575168	A	19860311	US 85726119	A	19850423	198613 B

Priority Applications (No Type Date): US 83534308 A 19830921; US 85726119 A 19850423

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 4575168	A		5		

File 348:EUROPEAN PATENTS 1978-2003/Apr W04

File 349:PCT FULLTEXT 1979-2002/UB=20030501,UT=20030424

Set	Items	Description
S1	26417	PUNCH OR PUNCHES OR PUNCHER? ? OR PUNCHING
S2	25561	STAMP OR STAMPS OR STAMPER? ? OR STAMPING
S3	15967	EMBOSS?
S4	106948	CLIP OR CLIPS OR CLIPPING OR CLASP? ? OR CLASPING OR GRIP - OR GRIPS OR GRIPPING
S5	251733	ALIGN?
S6	258697	GUIDE?
S7	164948	PAPER
S8	2348	CLIP? ?() (ON OR ONS)
S9	976	S5()S6
S10	0	S8(10N)S9
S11	0	S8(S)S9
S12	62531	S1:S3
S13	1634	S12(S)S4
S14	0	S13(S)S9
S15	166	S13(S)S5
S16	6205	S12/TI OR S4/TI
S17	27	S15 AND S16

17/3,K/3 (Item 3 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

(c) 2003 European Patent Office. All rts. reserv.

01138895

Punching apparatus for stamping and method for producing the same
Stanzvorrichtung und Verfahren zu ihrer Herstellung
Dispositif de poinçonnage et procede de realisation d'un tel dispositif
PATENT ASSIGNEE:

NGK INSULATORS, LTD., (302188), 2-56 Suda-cho, Mizuho-ku, Nagoya-City,
Aichi Prefecture 467-8530, (JP), (Proprietor designated states: all)

INVENTOR:

Tsuji, Hiroyuki, 1508-1, Hara 4 chome, Tenpaku-ku, Nagoya-city,
Aichi-pref. 468-0015, (JP)

Kitamura, Kazumasa, 30-40, Aza-Kudarimatsu, Kawadakata, Hagiwara-cho,
Ichinomiya-city, Aichi-pref. 491-0366, (JP)

Noritake, Motoo, 11-1-109, Otowa 3 chome, Ichinomiya-city, Aichi-pref.
491-0045, (JP)

Matsubayashi, Satoshi, 15-12, Chiyo 3-chome, Yahatanishi-ku,
Kitakyusyu-shi, Fukuoka-pref. 807-1112, (JP)

Kabe, Shusaku, 10-26-306, Komine 3 chome, Yahatanishi-ku, Kitakyusyu-shi,
Fukuoka-pref. 806-0081, (JP)

LEGAL REPRESENTATIVE:

Paget, Hugh Charles Edward et al (34621), MEWBURN ELLIS York House 23
Kingsway, London WC2B 6HP, (GB)

PATENT (CC, No, Kind, Date): EP 993885 A1 000419 (Basic)
EP 993885 B1 021127

APPLICATION (CC, No, Date): EP 99307490 990922;

PRIORITY (CC, No, Date): JP 98271329 980925

DESIGNATED STATES: DE; FR; GB; IT

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: B21D-028/34; B26F-001/14

ABSTRACT WORD COUNT: 171

NOTE: Figure number on first page: 4

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200016	689
CLAIMS B	(English)	200248	732
CLAIMS B	(German)	200248	708
CLAIMS B	(French)	200248	797
SPEC A	(English)	200016	6184
SPEC B	(English)	200248	5986
Total word count - document A			6873
Total word count - document B			8223
Total word count - documents A + B			15096

...SPECIFICATION the second holding members 116a, 116b. Thus, the stamping punch 92 is produced.

When the **stamping punch** 92 is produced as described above, the **punch** members 96 can be highly accurately secured to the **punch** holder 86, for example, even in the case of a minute **punch** in which the **punch** member 96 has a diameter of not more than 0.3 mm. The plurality of **punch** members 96 are **aligned** on one **grip** member 94. Therefore, it is possible to arbitrarily select the number of **stamping punches** 92 necessary for one **stamping punching** apparatus.

Subsequently, as shown in FIG. 4, the stamping punch 92 is inserted into the...

...SPECIFICATION the second holding members 116a, 116b. Thus, the stamping punch 92 is produced.

When the **stamping punch** 92 is produced as described above, the **punch** members 96 can be highly accurately secured to the **punch** holder 86, for example, even in the case of a minute **punch** in which the **punch** member 96 has a diameter of not more than 0.3 mm. The plurality of **punch** members 96 are **aligned** on one **grip** member 94. Therefore, it is possible to arbitrarily select the number of **stamping punches** 92 necessary for one **stamping - punching** apparatus.

Subsequently, as shown in FIG. 4, the stamping punch 92 is inserted into the...

17/3,K/4 (Item 4 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01121450

Punch guide assembly

Stanzführungsanordnung

Ensemble guide de poinçon

PATENT ASSIGNEE:

Mate Precision Tooling Inc., (2003982), 6400 Industry Avenue, Ramsey, Minnesota 55303, (US), (Applicant designated States: all)

INVENTOR:

Schneider, Joseph Charles, 14661 Junite Street N.W., Ramsey, Minnesota 55303, (US)

Berry, David A., 6965 Hickory Circle, Fridley, Minnesota 55432, (US)

LEGAL REPRESENTATIVE:

Jochem, Bernd, Dipl.-Wirtsch.-Ing. (6067), Patentanwälte Beyer & Jochem, Postfach 18 02 04, 60083 Frankfurt am Main, (DE)

PATENT (CC, No, Kind, Date): EP 980724 A2 000223 (Basic)
EP 980724 A3 021211

APPLICATION (CC, No, Date): EP 99115992 990816;

PRIORITY (CC, No, Date): US 135358 980817

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;

LU; MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: B21D-028/34; B21D-045/00
ABSTRACT WORD COUNT: 67

NOTE: Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200008	383
SPEC A	(English)	200008	1314
Total word count - document A			1697
Total word count - document B			0
Total word count - documents A + B			1697

...SPECIFICATION longitudinal slots 13 inside the punch guide 2.

As shown in Figures 5 and 6, **punch** guide 2 includes openings 15 for receiving respective side arms 8 of the retaining **clip** 7. These openings 15 are **aligned** with groove 10 when the stripper plate 6 is fully inserted into the **punch** guide 2. **Punch** guide 2 may include slight indentations 23 in the exterior wall near opening 16 which allow retaining **clip** 7 to be more easily grasped when removed from the **punch** guide. **Punch** guide 2 may also include an opening 16 for receiving protrusion 17 on the retaining **clip**. Protrusion 17, when positioned in opening 16, helps to prevent the retaining **clip** 7 from rotating relative to the **punch** guide 2 and stripper plate 6. Thus, when retaining **clip** 7 is inserted into **punch** guide 2 the edge 19 of protrusion 17 lies flat against the groove 10 as...

...CLAIMS inserted into said opening for retaining said stripper plate in an operative position.

3. The **punch** guide assembly according to claim 2 wherein said stripper plate includes at least one groove in an exterior sidewall thereof such that said groove is **aligned** with said opening when said stripper plate is operatively inserted into said **punch** guide, said two side arms of said retaining **clip** engaging said groove when inserted into said opening.
4. The **punch** guide assembly according to claim 3 wherein said **punch** guide includes at least one groove in an interior wall thereof, said groove in said **punch** guide being **aligned** with said groove in said stripper plate when said stripper plate is operatively inserted into said **punch** guide, said side arms of said retaining **clip** including protrusions extending into said groove in said **punch** guide when said retaining **clip** is inserted into said opening.
5. The **punch** guide assembly according to claim 3 wherein...

17/3,K/5 (Item 5 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01006439

Slotted clip and method

Geschlitzte Halteklammer und Verfahren

Clip avec fentes et procede

PATENT ASSIGNEE:

Stanley Fastening Systems, L.P., (2391991), 7707 North Austin Avenue,

Skokie, Illinois 60077-2688, (US), (Proprietor designated states: all)

INVENTOR:

Room, David, 5232 George Street, Skokie, Illinois 60077, (US)

Graszer, Matthew, 933 East Morris Drive, Palatine, Illinois 60067, (US)

Lackler, Paul, 576 Emroy Avenue, Elmhurst, Illinois 60126, (US)
LEGAL REPRESENTATIVE:
Schmidt, Christian, Dipl.-Phys. et al (76643), Manitz, Finsterwald &
Partner GbR Postfach 31 02 20, 80102 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 907033 A2 990407 (Basic)
EP 907033 A3 000419
EP 907033 B1 021218
APPLICATION (CC, No, Date): EP 98118670 981002;
PRIORITY (CC, No, Date): US 942533 971002; US 39079 980310
DESIGNATED STATES: DE; ES; FR; GB; IE; IT; PT
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: F16B-015/08; B21D-053/36; B25C-005/16
ABSTRACT WORD COUNT: 291
NOTE: Figure number on first page: 1
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199914	1900
CLAIMS B	(English)	200251	2012
CLAIMS B	(German)	200251	2025
CLAIMS B	(French)	200251	2351
SPEC A	(English)	199914	10563
SPEC B	(English)	200251	10683
Total word count - document A			12465
Total word count - document B			17071
Total word count -, documents A + B			29536

...SPECIFICATION 86 and the die cavity sides 180 and 182.

The very tight dimensions between the **punch** portion 82 and projections 176 and 178 make it very difficult for slugs 88 to be pulled out from the cavities 160 and 162 with the **punches** 78. Any such pull back of the slugs 88 requires that they be properly **aligned** between the cavity projections 176 and 178, which is very unlikely given the larger clearances, and thus room for slug shifting between the **punch** position 82 and cavity sides 180 and 182. As is apparent, the formation of projections 58 and 60 in the **clip** slots 16 facilitates improved holding of the cord 14 therein as well as providing manufacturing...

...cavity lower portion 202 to the bottom of the mounting block 198.

After the slot **punching** station 40, sections of the punched blank strip 64 are successively fed to the blank cutting and **clip** forming station 44 where the slotted U-shaped **clip** bodies 18 are formed which art then fed to the cord insertion station 42. One...

...the cords 14 back under a cord pressing mechanism 212 and under which the individual **clip** bodies 18 are run with their respective slots 16 in linear **alignment** with each other.

The cord pressing mechanism 212 includes a lower wedge block 214, as...

...SPECIFICATION 86 and the die cavity sides 180 and 182.

The very tight dimensions between the **punch** portion 82 and projections 176 and 178 make it very difficult for slugs 88 to be pulled out from the cavities 160 and 162 with the **punches** 78. Any such pull back of the slugs 88 requires that they be properly **aligned** between the cavity projections 176 and 178, which is very unlikely given the larger clearances, and thus room for slug shifting between the **punch** portion 82 and cavity sides 180 and 182. As is apparent, the formation of projections 58 and 60 in the **clip** slots 16 facilitates improved holding of the cord 14 therein as well as providing manufacturing...

...cavity lower portion 202 to the bottom of the mounting block 198.

After the slot **punching** station 40, sections of the punched blank strip 46 are successively fed to the blank cutting and **clip** forming station 44 where the slotted U-shaped **clip** bodies 18 are formed which are then fed to the cord insertion station 42. One...
...the cords 14 back under a cord pressing mechanism 212 and under which the individual **clip** bodies 18 are run with their respective slots 16 in linear **alignment** with each other.

The cord pressing mechanism 212 includes a lower wedge block 214, as...

17/3,K/6 (Item 6 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00985590

A gripper element for a punch or a die of a punching machine

Greiferglied fur eine Stanze oder eine Matrize einer Stanzvorrichtung

Element de prehension pour un poincon ou une matrice d'une machine a poinconner

PATENT ASSIGNEE:

RAINER S.r.l., (564130), Via Ottavio Serra, 3, I-40012 Calderara di Reno (Bologna), (IT), (Applicant designated States: all)

INVENTOR:

Perazzolo, Eugenio, Via Veronese, 15, 45100 Rovigo, (IT)

LEGAL REPRESENTATIVE:

Cerbaro, Elena, Dr. et al (53281), STUDIO TORTA S.r.l., Via Viotti, 9, 10121 Torino, (IT)

PATENT (CC, No, Kind, Date): EP 891823 A2 990120 (Basic)
EP 891823 A3 990929

APPLICATION (CC, No, Date): EP 98113196 980715;

PRIORITY (CC, No, Date): IT 97BO429 970716

DESIGNATED STATES: DE; ES; FI; FR; GB; IT

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: B21D-028/12

ABSTRACT WORD COUNT: 149

NOTE: Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; Italian

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9903	816
SPEC A	(English)	9903	2677
Total word count - document A			3493
Total word count - document B			0
Total word count - documents A + B			3493

...SPECIFICATION 128 and, on the other, a rod 129 for the associated piston.

In order to **grip** a **punch** 8 or a die 9, the gripper element 53, 54 is now brought into **alignment** with the seat 22, 29 of the turrets 6 and 7, and the seat 36...

...two orthogonal directions. The crosspiece 119 can now be raised along the axis of the **punch** 8 and the die 9 by means of the cylinder 69, 71 (see Figure 1 also) in order to remove the **punch** 8 or the die 9 from the respective seat.

In order to insert the punch...

17/3,K/8 (Item 8 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00776147

Stamp ink and stamp ink impregnation pad for stencil printing
Stempelfarbe und Stempelkissen für den Schablonendruck
Encre pour tampons et coussin d'encre pour impression par stencil

PATENT ASSIGNEE:

BROTHER KOGYO KABUSHIKI KAISHA, (431486), 15-1, Naeshiro-cho, Mizuho-ku,
Nagoya-shi, Aichi-ken, (JP), (Proprietor designated states: all)

INVENTOR:

Taira, Hiroshi, c/o Brother Kogyo K.K., No.15-1, Naeshiro-cho, Mizuho-ku,
Nagoya-shi, Aichi-ken, (JP)

Yamamoto, Minoru, c/o Brother Kogyo K.K., NO.15-1, Naeshiro-cho,
Mizuho-ku, Nagoya-shi, Aichi-ken, (JP)

Takami, Hiroshi, c/o Brother Kogyo K.K., No. 15-1, Naeshiro-cho,
Mizuho-ku, Nagoya-shi, Aichi-ken, (JP)

Yuasa, Takahiro, c/o Toyo Ink Manufact. Co., Ltd, No. 3-13, Kyobashi 2
chome, Chuo-ku, Tokyo, (JP)

Hasegawa, Hideki c/o Toyo Ink Manufact. Co., Ltd, No. 3-13, Kyobashi
2-chome, Chuo-kum, Tokyo, (JP)

LEGAL REPRESENTATIVE:

Woods, Geoffrey Corlett (48721), J.A. KEMP & CO. Gray's Inn 14 South
Square, London WC1R 5JJ, (GB)

PATENT (CC, No, Kind, Date): EP 725116 A2 960807 (Basic)

EP 725116 A3 970507

EP 725116 B1 030108

APPLICATION (CC, No, Date): EP 96300686 960131;

PRIORITY (CC, No, Date): JP 9534379 950131

DESIGNATED STATES: CH; DE; FR; GB; LI

INTERNATIONAL PATENT CLASS: C09D-011/02; B41K-001/54

ABSTRACT WORD COUNT: 84

NOTE: Figure number on first page: NONE

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	EPAB96	788
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CLAIMS B	(English)	200302	704
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CLAIMS B	(German)	200302	624
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CLAIMS B	(French)	200302	787
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SPEC A	(English)	EPAB96	4090
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SPEC B	(English)	200302	3674
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Total word count - document A	4879
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Total word count - document B	5789
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Total word count - documents A + B	10668
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...SPECIFICATION a thermal printer. The thermal head is provided with, for example, ninety-six heating elements **aligned** in a row. The thermal head is mounted on a carriage. The control unit selectively...

...the thermal head along and in contact with the print face portion 4 of the **stamp** unit 1. Accordingly, the inputted character array is perforated on the stencil paper 6 of the **stamp** unit 1. By holding the **grip** portion 2 in the hand and pressing the **stamp** unit 1 on a paper or other printing surface, the pad 5 is compressed and **stamp** ink seeps out through the perforated portion of the stencil paper 6, making a print...

...SPECIFICATION a thermal printer. The thermal head is provided with, for example, ninety-six heating elements **aligned** in a row. The thermal head is mounted on a carriage. The control unit selectively...

...the thermal head along and in contact with the print face portion 4 of

the **stamp** unit 1. Accordingly, the inputted character array is perforated on the stencil paper 6 of the **stamp** unit 1. By holding the **grip** portion 2 in the hand and pressing the **stamp** unit 1 on a paper or other printing surface, the pad 5 is compressed and **stamp** ink seeps out through the perforated portion of the stencil paper 6, making a print...

17/3,K/9 (Item 9 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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00747345

Punch tool with interchangeable die
Stanzwerkzeug mit auswechselbarem Werkzeug
Outil de poinçonnage avec outil interchangeable

PATENT ASSIGNEE:

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INVENTOR:

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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 704284 A1 960403 (Basic)

APPLICATION (CC, No, Date): EP 95250230 950922;

PRIORITY (CC, No, Date): US 314876 940929

DESIGNATED STATES: BE; DE; ES; FR; GB; IT; LU; NL

INTERNATIONAL PATENT CLASS: B26F-001/32;

ABSTRACT WORD COUNT: 169

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	EPAB96	418
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SPEC A	(English)	EPAB96	2493
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Total word count - document A	2911
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Total word count - document B	0
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Total word count - documents A + B	2911
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...SPECIFICATION therein. A lower surface 58, defining one side of slot 56, is disposed for general **alignment** with flat top surface 32 of base 14 when die portion 16 is inserted into...

...along flat top surface 32 and into slot 56 along lower surface 58 prior to **punching**. Main body 54 also includes a shearing edge 60 (see Figure 6) having a predetermined...

...accidental rotation of die portion 16 prior to intended exertion of sufficient rotational force. A **gripping** member 66 extends downwardly from main body 54 and provides an area for a user to **grip** and rotate die portion 16.

A guide 68 extends upwardly from main body 54 above...

17/3,K/10 (Item 10 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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00630353

RESILIENT CLIP ASSEMBLY
ELASTISCHE KLAMMERANORDNUNG
ENSEMBLE A AGRAFES ELASTIQUES

PATENT ASSIGNEE:

AYRES, Donald B., (1806330), 8501 Laramie, Stokie, IL 60077, (US),
(applicant designated states: BE;DE;ES;FR;GB;IT;NL;SE)
INVENTOR:
AYRES, Donald B., 8501 Laramie, Stokie, IL 60077, (US)
LEGAL REPRESENTATIVE:
Merten, Fritz (8333), Patentanwalt Tristanstrasse 5, 90461 Nurnberg, (DE)
PATENT (CC, No, Kind, Date): EP 668837 A1 950830 (Basic)
EP 668837 A1 951213
EP 668837 B1 970226
WO 9411273 940526
APPLICATION (CC, No, Date): EP 94901324 931108; WO 93US10751 931108
PRIORITY (CC, No, Date): US 972582 921106
DESIGNATED STATES: BE; DE; ES; FR; GB; IT; NL; SE
INTERNATIONAL PATENT CLASS: B65D-085/24;
NOTE: No A-document published by EPO
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB97	847
CLAIMS B	(German)	EPAB97	870
CLAIMS B	(French)	EPAB97	1036
SPEC B	(English)	EPAB97	2493
Total word count - document A			0
Total word count - document B			5246
Total word count - documents A + B			5246

...CLAIMS a type, style or size of clip.

12. The method of claim 7 characterized by **punching clip** blanks (10) from a sheet of metal with each blank (10) having two spaced apart...
...the area which will be formed into a bight portion (18) of a U-shaped **clip**; placing a plurality of the U-shaped **clips** (12) in a line or row with the openings (14,16) on one side of the **clip** (12) **aligned** with adjacent openings in the adjacent **clips** to form a first elongate trough (28) and a second elongate trough (29)...

17/3,K/11 (Item 11 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00538021

Punch assembly

Stanzwerkzeug

Dispositif de poinçonnage

PATENT ASSIGNEE:

WILSON TOOL INTERNATIONAL, INC., (1481730), 12912 Farnham Avenue, White Bear Lake, MN 55110, (US), (applicant designated states: AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;LU;MC;NL;PT;SE)

INVENTOR:

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Robinson, Verlon, 17138 Verdin Street N.W., Anoka, MN 55304, (US)

LEGAL REPRESENTATIVE:

Jones, Alan John (32391), CARPMAELS & RANSFORD 43 Bloomsbury Square, London, WC1A 2RA, (GB)

PATENT (CC, No, Kind, Date): EP 532147 A1 930317 (Basic)
EP 532147 B1 960207

APPLICATION (CC, No, Date): EP 92302310 920318;

PRIORITY (CC, No, Date): US 743689 910812

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; MC; NL;

PT; SE

INTERNATIONAL PATENT CLASS: B21D-028/34;

ABSTRACT WORD COUNT: 157

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB96	4179
CLAIMS B	(German)	EPAB96	956
CLAIMS B	(French)	EPAB96	1061
SPEC B	(English)	EPAB96	3153

Total word count - document A 0

Total word count - document B 9349

Total word count - documents A + B 9349

...SPECIFICATION turning the threaded portions of the assembly with respect to each other.

In practice, the **punch** assembly is used to **punch** items having a desired shape from a larger workpiece in a manner well known in the art. After the **punch** tip has worn and become dull due to repeatedly striking a workpiece, the **punch** assembly is removed from its turret or machine for sharpening. The **punch** assembly is disassembled by axially sliding the **punch** guide (40) away from the shaft of the **punch** body (20), as explained in detail above. With the **punch** guide removed, the **punch** tip (22) can then be sharpened. After sharpening, the length of the **punch** is shortened by whatever length was ground off. To compensate for this lost length, the **punch** holder (10) and **punch** body (20) are axially rotated in opposite directions. The rotating process causes the cam pin (39) of the wire **clip** to exit the detent (32) and slide along the groove until it enters the next detent. The motion of the **clip** entering a detent produces a "click" sound which alerts the user that the **clip** has entered a detent. As the thread diameter and pitch, as well as the location...

...number of grooves, will all be known before the assembly is used, the length the **punch** is increased by rotating the two threaded members of the **punch** will be predetermined. Thus, the user can adjust the length of the **punch** as needed simply by counting the number of "clicks". This process is repeated until the **punch** reaches the desired length. The **punch** assembly will be **aligned** and ready for use when the aperture is **aligned** with a detent. The **punch** assembly is then reassembled by sliding the guide back onto the shaft of the **punch** body and the **punch** assembly can be employed once again (Fig. 3).

While a preferred embodiment of the present...

...CLAIMS turning the threaded portions of the assembly with respect to each other.

In practice, the **punch** assembly is used to **punch** items having a desired shape from a larger workpiece in a manner well known in the art. After the **punch** tip has worn and become dull due to repeatedly striking a workpiece, the **punch** assembly is removed from its turret or machine for sharpening. The **punch** assembly is disassembled by axially sliding the **punch** guide (40) away from the shaft of the **punch** body (20), as explained in detail above. With the **punch** guide removed, the **punch** tip (22) can then be sharpened. After sharpening, the length of the **punch** is shortened by whatever length was ground off. To compensate for this lost length, the **punch** holder (10) and **punch** body (20) are axially rotated in opposite directions. The rotating process causes the cam pin (39) of the wire **clip** to exit the detent (32) and slide

along the groove until it enters the next detent. The motion of the **clip** entering a detent produces a "click" sound which alerts the user that the **clip** has entered a detent. As the thread diameter and pitch, as well as the location...

...number of grooves, will all be known before the assembly is used, the length the **punch** is increased by rotating the two threaded members of the **punch** will be predetermined. Thus, the user can adjust the length of the **punch** as needed simply by counting the number of "clicks". This process is repeated until the **punch** reaches the desired length. The **punch** assembly will be **aligned** and ready for use when the aperture is **aligned** with a detent. The **punch** assembly is then reassembled by sliding the guide back onto the shaft of the **punch** body and the **punch** assembly can be employed once again (Fig. 3).

While a preferred embodiment of the present...to the male threaded end (24) with respect to the female end (14).

10. A **punch** assembly for use in a **punch** press, the assembly including a **punch** (5) comprising a pair of elongated rods (10,20), the first of which has an...

...the threaded male end (24) of the first rod such that the length of the **punch** (5) formed by the two rods threaded together may be altered by rotating one rod with respect to the other, one of the rods having at its other end a **punch** tip (22), the **punch** including means for releasably locking the rods together against rotation of one with respect to...

...through said circumferential wall, and a recess (32) formed in the threaded male end and **alignable** during rotation thereof with the aperture and the female rod end, a locking pin (39)...

...for resiliently retaining the locking pin in said aperture comprising a generally "C" shaped wire **clip** (30) bearing said pin at one end, said **clip** being of springy metal and extending more than half way around the circumference of the...

...than the outer diameter of the threaded rod end adjacent to the groove, whereby said **clip** (30), with the tip (39) received in said aperture, snaps into said groove (31), the assembly including stripper means to strip a metal workpiece away from the **punch** tip during a return stroke of the **punch** tip in a **punching** operation, the stripper means comprising a tubular sheath within which is received the rod (20) bearing the **punch** tip (22), the stripper means including a stripper plate at its end having an orifice through where the **punch** tip protrudes in a **punching** operation, wherein adjustment of the length of the **punch** (5) by rotating one of the **punch** rods with respect to the other (10,20) adjusts the distance by which the **punch** tip (22) protrudes from the **punch** plate in a **punching** operation. ...

17/3,K/14 (Item 1 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00951797 **Image available**

METHOD OF MAKING A HAND STAMP, A HAND STAMP APPARATUS AND A STORAGE DEVICE FOR STORING IMPRINTING ELEMENTS

PROCEDE DE FABRICATION D'UN TAMPON MANUEL, APPAREIL A TAMPONS MANUELS ET DISPOSITIF DE STOCKAGE DESTINE A STOCKER DES ELEMENTS D'IMPRESSION

Patent Applicant/Inventor:

LOOKHOLDER Dale, Santa Clarita, CA, US, US (Residence), US (Nationality)

CASTON Christopher B, Glendale, CA, US, US (Residence), US (Nationality)
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(Nationality)

Legal Representative:

CRUM & ROTH (agent), 53 West Jackson Boulevard, Chicago, IL 60604-3606, US,
Patent and Priority Information (Country, Number, Date):

Patent: WO 200285629 A1 20021031 (WO 0285629)

Application: WO 2002US10472 20020401 (PCT/WO US0210472)

Priority Application: US 2001823485 20010330

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ

DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ

LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG

SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 10957

Fulltext Availability:

Claims

Claim

... 8 A hand **stamp** apparatus for producing an image on a surface
comprising:

43

(a) a mounting blocking having a smooth surface;

(b) a first **stamp** element removably affixed to said smooth surface
for producing a first image on a selected portion of the surface, said
stamp element being formed of a viscoelastic photopolymer; and having a
multiplicity of small **gripping** protuberances for releasably **gripping**
said smooth surface; and

(c) a second substantially transparent **stamp** element removably
affixed to said mounting block for **alignment** with said first image for
producing a second image proximate said first image on a selected portion
of the surface, said second **stamp** element being formed of a viscoelastic
photopolymer...

17/3,K/16 (Item 3 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00780949 **Image available**

THIN SHEET PUNCHING DEVICE

DISPOSITIF DE POINCONNAGE D'UNE FEUILLE MINCE

Patent Applicant/Assignee:

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Patent Applicant/Inventor:

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(Nationality), (Designated only for: US)

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(Nationality), (Designated only for: US)
KUSE Takanori, 172-24, Takamiya, Neyagawa-shi, Osaka 572-0806, JP, JP
(Residence), JP (Nationality), (Designated only for: US)
SHIZUNO Akio, 598, Egashira-cho, Omihachiman-shi, Shiga 532-0061, JP, JP
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Patent and Priority Information (Country, Number, Date):

Patent: WO 200114079 A1 20010301 (WO 0114079)
Application: WO 2000JP5428 20000811 (PCT/WO JP0005428)
Priority Application: JP 99238835 19990825

Designated States: BR ID IN PL US

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 20071

Fulltext Availability:

Detailed Description

Detailed Description

... having passed fully through the transit grooves of the dies, the material waste generated when **punching** of the large thin sheet has been completed is released by opening the chuck tools, whereupon the chuck tools advance further from the release position to a **gripping** position, where a large thin sheet registered in position on the material supply/position registering...

... direction, it is possible further to enhance the efficiency of the large thin sheet **punching** steps,

In the aforementioned inventions, desirably, the thin sheet **punching** device further comprises a small piece transporting and **aligning** mechanism for transporting small pieces punched out from a large thin sheet by the **punch** press machine and stacking same in an **aligned** state. The small piece transporting and **aligning** mechanism comprises the following elements: An output magnetic conveyor outputs small pieces which drop down after being punched out by the **punch** press machine, to the exterior of the **punch** press machine, whilst maintaining the positions thereof after **punching**. A stacking magnetic conveyor guides small pieces discharged from the end of the path...

17/3,K/18 (Item 5 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00545928 **Image available**

PUNCH GUIDE ASSEMBLY

ENSEMBLE DE GUIDAGE POUR DISPOSITIF DE POINCONNAGE

Patent Applicant/Assignee:

MATE PRECISION TOOLING INC,

Inventor(s):

SCHNEIDER Joseph Charles,

BERRY David A,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200009301 A1 20000224 (WO 0009301)
Application: WO 99US17517 19990803 (PCT/WO US9917517)
Priority Application: US 98135358 19980817

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE

ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT
UA UG UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU
TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG
CI CM GA GN GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 2773

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... longitudinal slots 13 inside the punch guide 2.

As shown in Figures 5 and 6, **punch** guide 2 includes openings 15 for receiving respective side arms 8 of the retaining **clip** 7. These openings 15 are **aligned** with groove 10 when the stripper plate 6 is fully inserted into the **punch** guide 2. **Punch** guide 2 may include slight indentations 23 in the exterior wall near opening 16 which allow retaining **clip** 7 to be more easily grasped when removed from the **punch** guide. **Punch** guide 2 may also include an opening 16 for receiving protrusion 17 on the retaining **clip** . Protrusion 17, when positioned in opening 16, helps to prevent the retaining **clip** 7 from rotating relative to the **punch** guide 2 and stripper plate 6. Thus, when retaining **clip** 7 is inserted into **punch** guide 2 the edge 19 of protrusion 17 lies flat against the groove 10 as...

...pulled out of punch guide 2.

In the preferred embodiment, the inner sidewalls of the **punch** guide 2 also include grooves 14 extending in a circumferential direction which **align** with the groove 10 in the stripper plate 6 when the stripper plate 6 is completely inserted into the lower open end of the **punch** guide 2. In contrast to groove 10 in the stripper plate 6, grooves 14 in the **punch** guide 2 need not extend around the full circumference of the **punch** guide 2. Retaining **clip** 7 includes protrusions 20 at ends thereof which extend into the grooves 14 in the **punch** guide 2 to more securely hold the stripper plate 6 in place inside the **punch** guide 2. Protrusions 21 extend inwardly to engage groove 10 of the stripper plate and also extend outwardly to engage groove 14 of the **punch** guide 2. Although the invention has been described in considerable detail with respect to preferred...

Claim

... inserted into said opening for retaining said stripper plate in an operative position.

3 The **punch** guide assembly according to claim 2 wherein said stripper plate includes at least one groove in an exterior sidewall thereof such that said groove is **aligned** with said opening when said stripper plate is operatively inserted into said **punch** guide, said two side arms of said retaining **clip** engaging said groove when inserted into said opening.

4 The **punch** guide assembly according to claim 3 wherein said **punch** guide includes at least one groove in an interior wall thereof, said groove in said **punch** guide being **aligned** with said groove in said stripper plate when said stripper plate is operatively inserted into said **punch** guide, said side arms of said retaining **clip** including protrusions extending into said groove in said **punch** guide when said retaining **clip** is inserted into said opening.

5 The punch guide assembly according to claim 3 wherein...

17/3,K/20 (Item 7 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00438354 **Image available**

MINIATURE CARD EDGE CLIP
PINCE LATÉRALE POUR CARTE MINIATURE

Patent Applicant/Assignee:

THOMAS & BETTS INTERNATIONAL INC,

Inventor(s):

DELPRETE Stephen D,

BARNUM David M,

SOUSA Luis A,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9828818 A1 19980702

Application: WO 97US23422 19971222 (PCT/WO US9723422)

Priority Application: US 96771978 19961223

Designated States: CA CN JP AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT
SE

Publication Language: English

Fulltext Word Count: 3187

Fulltext Availability:

Detailed Description

Detailed Description

... in order to provide connectivity between the printed circuit board and an external device.

The edge **clip** may also include an **alignment** feature for facilitating **alignment** of the edge **clip** with respect to the printed circuit board pad. The **alignment** feature is an interlocking protrusion and recess. While the protrusion may be formed on either the printed circuit board or the edge **clip**, in the preferred embodiment the protrusion is formed on the malleable legs of the edge **clip** by bending or **stamping** to provide bumps which will **align** with the corresponding holes formed in the printed circuit board.

The edge clip may also...facilitating alignment of the edge clip with respect to the printed circuit board pad.

Each **alignment** feature is an interlocking protrusion 50 and recess 52 which are configured to **align** and securely interlock. While the protrusion may be formed on either the printed circuit board or the edge **clip**, in the preferred embodiment the protrusion is formed on the metal edge **clip** legs by bending or **stamping** to provide bumps which will **align** with the corresponding holes drilled in the printed circuit board...

17/3,K/25 (Item 12 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

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00229642

LINEAR PUNCH PRESS

PRESSE A DECOUPER LINEAIRE

Patent Applicant/Assignee:

DUNN David C,

Inventor(s):

DUNN David C,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9303893 A1 19930304

Application: WO 92US6605 19920810 (PCT/WO US9206605)

Priority Application: US 91757 19910819

Designated States: AU CA FI JP KR AT BE CH DE DK ES FR GB GR IE IT LU MC NL
SE

Publication Language: English

Fulltext Word Count: 3584

Fulltext Availability:

Detailed Description
Detailed Description

... bridge-type frame 22".

Industrial AT)TAicability

The manner of loading and unloading the linear **punch** press 4 with a workpiece, not shown . is identical to that of present 5 type **punch** presses and may be manual or automatic. The X and 6 Y positioning frame 24...

...134 (Fig, 4), The workpiece clamp 106 and the repositioning clamp 54 are activated and **grip** the workpiece to prevent its unauthorized movement. Y axis servo drive 74 revolves the screw...

...the Y axis direction. The linear guides 70 and 70a keep the bar clamp 86 **aligned** ,

The repositioning clamp 54a and workpiece clamp 106a are similarly activated ana **grip** the workpiece. When the "on" button is activated X axis index cylinder 134 and reposition ing clamps 54 and 54a are released. The workpiece is moved to the first **punch** position by the Y axis servomotor drive 74 moving the workpiece in the Y axis...

...82, on the frame 50 sides, (Fige 8) prevents concave or convex bending of the **punch** sup port 38 during workpiece **punching** action. The stepper motors 114 and 114a rotate the interposer cams 116 and 116a by the cam shafts 120 and 120a into position for striking the **punch** rams 118. The workpiece will be punched when either cam 116 or 116a is actuated. When cam 116 has been selected the **punching** ram cylinder 110 drives the interposer 108 downward strikina **punching** ram 118 to produce the desired configuration in the workpiece...

17/3,K/26 (Item 13 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00172216

MANUALLY OPERATED CLIP ATTACHMENT APPARATUS WITH MOVABLE GATE AND DIE
APPAREIL MANUEL DE POSE D'AGRAFES AVEC PLAQUE ET MATRICE MOBILES

Patent Applicant/Assignee:

DELAWARE CAPITAL FORMATION INC,

ARNONE David A,

Inventor(s):

ARNONE David A,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9005670 A1 19900531

Application: WO 88US4054 19881114 (PCT/WO US8804054)

Priority Application: WO 88US4054 19881114

Designated States: AT AU BE BR CH DE DK FR GB IT JP LU NL SE

Publication Language: English

Fulltext Word Count: 3672

Fulltext Availability:

Detailed Description

Detailed Description

... the channel 24, The slot 51 thus serves to guide a leg 34 of a **clip** 28 passing along the channel 24, The opposite side of the throat 50 is,, however...

...respectively, Note that the pivot shaft or rod 52 pivots about an axis which is **aligned** with approximately the midpoint of the channel 24. Thus, pivoting about the axis of the rod 52 will position the midpoint of the die block 54 in the path of **punch** 22 and a **clip** 28.

The gate 16 also includes a longitudinal groove associated with a clip 28 when...

Searcher: Jeanne Horrigan
Serial 10/025832
May 7, 2003